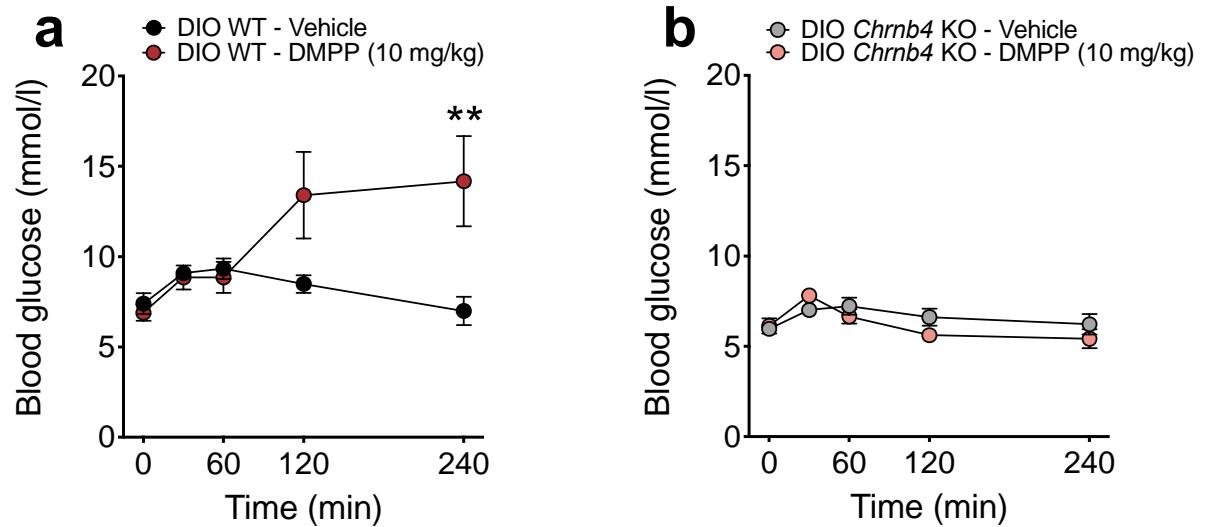


**ESM Table 1 Sequences of primers**

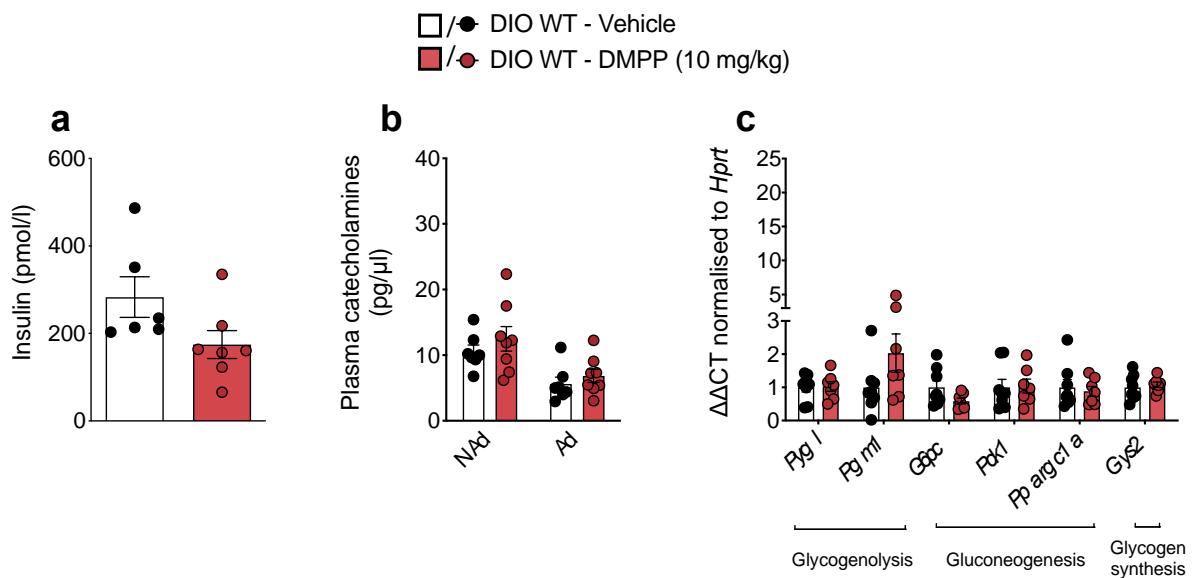
Gene	5' – 3' primer	5' – 3' primer
<i>G6pc</i>	CTGTCTGTCCCGGATCTACC	GCGCGAAACCAAACAAGAAG
<i>Gys2</i>	CGCTCCTTGTGGTGACATC	CATCGGCTGTCGTTTGGC
<i>Hprt</i>	AAGCTTGCTGGTGAAAAGGA	TTGCGCTCATCTTAGGCTTT
<i>Pck1</i>	CTGCATAACGGTCTGGACTTC	CAGCAAACCTCCGTACTCC
<i>Pgm1</i>	CCAAAATCTGCGGCCATA	CCAGAACAAAGGGACAGCAC
<i>Ppargc1a</i>	AGCCGTGACCACTGACAACGAG	GCTGCATGGTTCTGAGTGCTAAG
<i>Pygl</i>	TACATTCAAGGCTGTGCTGGA	AAGGCATCAAACACGGTTCC

**ESM Fig. 1**



**ESM Fig. 1 DMPP elicits hyperglycemia specifically via CHRN<sub>B</sub>4.** (a, b) Effect of first injection of DMPP (10 mg/kg) or vehicle injected at time point 0 min on blood glucose in DIO WT and *Chrb4* KO mice (n = 6-8). Data are means  $\pm$  SEM. Data were assessed by two-way repeated measures ANOVA (time  $\times$  drug) with a subsequent Bonferroni post hoc test. \*\* $p \leq 0.01$  compared to vehicle at 240 min.

**ESM Fig. 2**



**ESM Fig. 2 Glucose-stimulated insulin secretion, plasma catecholamines, and gluconeogenic gene expression after chronic DMPP.** (a) Plasma insulin 40 min after glucose injection (1.75 g/kg body weight i.p.) in DIO mice chronically treated with DMPP (10 mg/kg) or vehicle for 8 days. (b) Plasma noradrenaline (NAd) and adrenaline (Ad) in chronically DMPP- or vehicle-treated DIO mice (day 8) 80 min after compound (DMPP or vehicle) injections. (c) Expression of indicated genes in the liver after 14 days of daily injections of vehicle or DMPP in DIO WT mice with liver dissection 2 hours after the last compound injection on day 14. Data are means  $\pm$  SEM ( $n = 6-8$ ). Differences were probed with two-tailed Student's *t*-tests comparing the means of vehicle and DMPP.